

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	49	plant\$1 and robot\$1 and (plc or (programmable adj logic and control)) and (histor\$4 adj data) server and (data adj stream adj controller) and ((software adj plc) or (software adj based adj plc))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:53
L2	1056	((700/2) or (700/96) or (700/169)). CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:53
L3	2255	((programmable adj process and control\$3) or PLC) and (process adj control)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:54
L4	3	3 and (data with (time adj marker))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:54
L5	7292	(plc or (programmable adj logic adj controller)) and (plant)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:55
L6	244	5 and (histor\$4 adj data)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:55
L7	6	6 and (field adj bus)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:55
L8	289	data with (time adj marker)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:56
L9	4593	industrial adj (plant or factory)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:56

## EAST Search History

L10	87	9 and robot\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/03/17 21:56
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**Re: PC based Control .vs. PLC**

Regards Phill O'Meley PS If you can give me a shrink wrapped **soft PLC** running on

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**Soft PLC**

in conjunction with an industrial I/O bus (adapter on the "**Soft PLC**" platform,

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Rockwell Automation has developed a new SERCOS version of SoftLogix 5800 control software, its flexible, **soft PLC** solution with motion control capabilities.

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## » Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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Wilson, J.E.; Bried, F.;  
[Industry Applications, IEEE Transactions on](#)  
Volume 24, Issue 6, Nov.-Dec. 1988 Page(s):1082 - 1088  
Digital Object Identifier 10.1109/28.17482  
[AbstractPlus](#) | Full Text: [PDF](#)(460 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 2. **Programmable logic controllers**  
Erickson, K.T.;  
[Potentials, IEEE](#)  
Volume 15, Issue 1, Feb-Mar 1996 Page(s):14 - 17  
Digital Object Identifier 10.1109/45.481370  
[AbstractPlus](#) | Full Text: [PDF](#)(1776 KB) IEEE JNL  
[Rights and Permissions](#)
- ☐ 3. **The hardware and software interface of a programmable logic controller for**  
**grade process control system**  
Hossain, A.; Rashid, M.H.;  
[Industry Applications Society Annual Meeting, 1990. Conference Record of the](#)  
7-12 Oct. 1990 Page(s):1862 - 1868 vol.2  
Digital Object Identifier 10.1109/IAS.1990.152439  
[AbstractPlus](#) | Full Text: [PDF](#)(672 KB) IEEE CNF  
[Rights and Permissions](#)
- ☐ 4. **A graphical simulation tool for programmable logic controllers**  
Barker, H.A.; Song, J.;  
[Discrete Event Dynamic Systems - A New Generation of Modelling, Simulation](#)  
[Applications, IEE Colloquium on](#)  
9 Jun 1992 Page(s):4/1 - 4/4  
[AbstractPlus](#) | Full Text: [PDF](#)(160 KB) IEE CNF
- ☐ 5. **IEC65B languages as a basis for open systems in PLCs?**  
Lewis, R.W.;  
[Advances in Programmable Logic Controllers, IEE Colloquium on](#)  
24 Feb 1992 Page(s):1/1 - 1/9  
[AbstractPlus](#) | Full Text: [PDF](#)(304 KB) IEE CNF

- ☐ **6. Visual programming expedites process control [of power stations]**  
Isomura, S.; Katoh, M.;  
[Computer Applications in Power, IEEE](#)  
Volume 9, Issue 4, Oct. 1996 Page(s):52 - 57  
Digital Object Identifier 10.1109/67.539848  
[AbstractPlus](#) | Full Text: [PDF](#)(1912 KB) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **7. Application of programmable logic controllers to substation control and**  
Gilbert, J.G.; Diehl, G.R.;  
[Power Delivery, IEEE Transactions on](#)  
Volume 9, Issue 1, Jan. 1994 Page(s):384 - 393  
Digital Object Identifier 10.1109/61.277710  
[AbstractPlus](#) | Full Text: [PDF](#)(844 KB) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **8. Control of tap change under load transformers through the use of progra  
controllers**  
Bassett, D.L.;  
[Power Delivery, IEEE Transactions on](#)  
Volume 8, Issue 4, Oct. 1993 Page(s):1759 - 1765  
Digital Object Identifier 10.1109/61.248283  
[AbstractPlus](#) | Full Text: [PDF](#)(652 KB) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **9. Automation of reciprocating gas engine compressor packages using pro  
controllers**  
Goff, W.H.;  
[Industry Applications, IEEE Transactions on](#)  
Volume 26, Issue 5, Sept.-Oct. 1990 Page(s):909 - 913  
Digital Object Identifier 10.1109/28.60062  
[AbstractPlus](#) | Full Text: [PDF](#)(444 KB) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **10. A method for improving the robustness of PID control**  
Skoczowski, S.; Domek, S.; Pietrusewicz, K.; Broel-Plater, B.;  
[Industrial Electronics, IEEE Transactions on](#)  
Volume 52, Issue 6, Dec. 2005 Page(s):1669 - 1676  
Digital Object Identifier 10.1109/TIE.2005.858705  
[AbstractPlus](#) | Full Text: [PDF](#)(448 KB) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **11. Modeling programmable logic controllers for logic verification**  
Moon, I.;  
[Control Systems Magazine, IEEE](#)  
Volume 14, Issue 2, April 1994 Page(s):53 - 59  
Digital Object Identifier 10.1109/37.272781  
[AbstractPlus](#) | Full Text: [PDF](#)(520 KB) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **12. Fuzzy Petri net-based programmable logic controller**  
Andreu, D.; Pascal, J.-C.; Valette, R.;  
[Systems, Man and Cybernetics, Part B, IEEE Transactions on](#)  
Volume 27, Issue 6, Dec. 1997 Page(s):952 - 961  
Digital Object Identifier 10.1109/3477.650056  
[AbstractPlus](#) | [References](#) | Full Text: [PDF](#)(268 KB) IEEE JNL  
[Rights and Permissions](#)

- ☐ **13. Specification, design, and implementation of logic controllers based on models and the standard IEC 1131. II. Design and implementation**  
Feldmann, K.; Colombo, A.W.; Schnur, C.; Stockel, T.;  
[Control Systems Technology, IEEE Transactions on](#)  
Volume 7, Issue 6, Nov. 1999 Page(s):666 - 674  
Digital Object Identifier 10.1109/87.799667  
[AbstractPlus](#) | [References](#) | Full Text: [PDF\(132 KB\)](#) IEEE JNL  
[Rights and Permissions](#)
  
- ☐ **14. Safe PLD-based programmable controllers**  
Alvarez, J.; Marcos, J.; Fernandez, S.;  
[Field Programmable Logic and Applications, 2005. International Conference on](#)  
24-26 Aug. 2005 Page(s):559 - 562  
Digital Object Identifier 10.1109/FPL.2005.1515785  
[AbstractPlus](#) | Full Text: [PDF\(115 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ **15. Avoiding pitfalls in applying programmable logic controllers in substations**  
Wilson, T.L.;  
[Power Engineering Society Winter Meeting, 2001. IEEE](#)  
Volume 2, 28 Jan.-1 Feb. 2001 Page(s):494 - 497 vol.2  
Digital Object Identifier 10.1109/PESW.2001.916896  
[AbstractPlus](#) | Full Text: [PDF\(552 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ **16. The use of PLCs in remedial action schemes**  
Raschio, P.J.;  
[Power Engineering Society Winter Meeting, 2001. IEEE](#)  
Volume 2, 28 Jan.-1 Feb. 2001 Page(s):489 - 493 vol.2  
Digital Object Identifier 10.1109/PESW.2001.916895  
[AbstractPlus](#) | Full Text: [PDF\(1092 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ **17. Development of data acquisition and load control system by programmable logic controller for high voltage load customer**  
Cho, M.Y.; Hwang, J.C.;  
[Power System Technology, 1998. Proceedings. POWERCON '98, 1998 International Conference on](#)  
Volume 1, 18-21 Aug. 1998 Page(s):275 - 279 vol.1  
Digital Object Identifier 10.1109/ICPST.1998.728969  
[AbstractPlus](#) | Full Text: [PDF\(460 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ **18. Pipelines, programmable logic controllers, and safety**  
Martin, M.A.; Buell, R.R.;  
[Petroleum and Chemical Industry Conference, 1997. Record of Conference Proceedings. Institute of Electrical and Electronics Engineers Incorporated Industry Applications Society, 36th Annual](#)  
15-17 Sept. 1997 Page(s):167 - 174  
Digital Object Identifier 10.1109/PCICON.1997.648180  
[AbstractPlus](#) | Full Text: [PDF\(572 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
  
- ☐ **19. Automation of reciprocating gas engine compressor packages using programmable logic controllers**  
Goff, W.H.;  
[Petroleum and Chemical Industry Conference, 1989. Record of Conference Proceedings. Institute of Electrical and Electronics Engineers Incorporated Industry Applications Society, 36th Annual](#)  
11-13 Sept. 1989 Page(s):181 - 187  
Digital Object Identifier 10.1109/PCICON.1989.77883

[AbstractPlus](#) | Full Text: [PDF\(432 KB\)](#) IEEE CNF  
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- ☐ **20. Diagnosis and debugging of programmable logic controller control progri networks**  
Abdelhameed, M.M.; Darabi, H.;  
[Automation Science and Engineering, 2005. IEEE International Conference on](#)  
1-2 Aug. 2005 Page(s):313 - 318  
Digital Object Identifier 10.1109/COASE.2005.1506788  
[AbstractPlus](#) | Full Text: [PDF\(221 KB\)](#) IEEE CNF  
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- ☐ **21. Interpretation Petri net model to IEC 1131-3: LD for programmable logic c**  
Suesut, T.; Inban, P.; Nilas, P.; Rerngreun, P.; Gulphanich, S.;  
[Robotics, Automation and Mechatronics, 2004 IEEE Conference on](#)  
Volume 2, 1-3 Dec. 2004 Page(s):1107 - 1111 vol.2  
[AbstractPlus](#) | Full Text: [PDF\(327 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **22. Optimization of sensor parameters in programmable logic controller via i programming**  
Konaka, E.; Suzuki, T.; Okuma, S.;  
[Control Applications, 2004. Proceedings of the 2004 IEEE International Confer](#)  
Volume 2, 2-4 Sept. 2004 Page(s):866 - 871 Vol.2  
[AbstractPlus](#) | Full Text: [PDF\(714 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **23. Automatic transfer switch (ATS) using programmable logic controller (PL**  
Ashour, H.;  
[Mechatronics, 2004. ICM '04. Proceedings of the IEEE International Conferen](#)  
3-5 June 2004 Page(s):531 - 535  
Digital Object Identifier 10.1109/ICMECH.2004.1364495  
[AbstractPlus](#) | Full Text: [PDF\(381 KB\)](#) IEEE CNF  
[Rights and Permissions](#)
- ☐ **24. Logic code transformation and minimization algorithm for fault diagnosti**  
Virtanen, T.;  
[Mechatronics, 2004. ICM '04. Proceedings of the IEEE International Conferen](#)  
3-5 June 2004 Page(s):459 - 464  
Digital Object Identifier 10.1109/ICMECH.2004.1364482  
[AbstractPlus](#) | Full Text: [PDF\(397 KB\)](#) IEEE CNF  
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- ☐ **25. Research on technique of real-time communication between programmal controller and microcomputer**  
Lei Lin; Houjun Wang;  
[Communications, Circuits and Systems, 2004. ICCCAS 2004. 2004 Internatio](#)  
Volume 2, 27-29 June 2004 Page(s):1410 - 1413 Vol.2  
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